



# OMNI

THE REINVENTION OF  
ACUTE BLOOD PURIFICATION

# THE FUTURE OF ACUTE BLOOD PURIFICATION.



Our task: To provide all current forms of therapy using all current anticoagulation modes. With one system.



# IT'S HERE!

Acute blood purification in the intensive care setting has become a key therapeutic tool, in particular in critically ill patients suffering from multiple organ failure (MOF). Due to the high case volume seen in ICU wards, efficacy in terms of performance and outcome have been successfully demonstrated.

The numbers speak for themselves.

At present,

- 6% of all ICU patients will suffer from acute kidney injury (AKI);
- 4.5% of ICU patients will require renal replacement therapy (RRT).

These numbers are expected to increase.

In the last 20 years, there's been an obvious paradigm shift away from intermittent hemodialysis (IHD) toward continuous renal replacement therapy (CRRT). This is due to an ever-increasing frequency of major surgery and the rising rate of sepsis. Therapeutic guidelines that support the early use of CRRT have been developed by the ADQI-KDIGO expert group.

Early initiation of therapy may be important for success and is much more likely if the intensivist is the decision maker, particularly in the case of multiple organ failure (MOF).

When we developed this new device, we wanted to design a system that would suit ICU needs in terms of usability, safety, performance and innovation. A system capable of streamlining the sometimes very complicated processes encountered in an ICU, thus significantly reducing the workload of doctors and nurses.



## FULL FLEXIBILITY MEANS STABILITY.



Why settle for less? The OMNI offers all current CRRT and anticoagulation modes and let you combine them freely. You get full flexibility and control.

### All CRRT and anticoagulation modes available at any time

**SCUF:** Slow continuous ultrafiltration  
**CVVH:** Continuous veno-venous hemofiltration  
**CVVHD:** Continuous veno-venous hemodialysis  
**CVVHDF:** Continuous veno-venous hemodiafiltration  
**Heparin**  
**Citrate (CVVHD)**  
**Adult**  
**TPE:** Therapeutic plasma exchange (future option)  
**Low blood volume** (future option)

### Real therapeutic freedom

- Continuously monitor the patient's condition
- Quickly change therapeutic strategy during treatment using the same set
- Effortlessly alter dilution levels to resolve a pressure drop or TMP issues
- Easily change bags to help achieve the adequate renal dose
- Precisely adjust fluid balance to regulate net fluid removal

### CRRT therapies

SCUF	✓
CVVH	✓
CVVHD	✓
CVVHDF	✓
Pre – Post – Pre/Post – Post/Post	✓

### Anticoagulation modes

Heparin	✓
Citrate (CVVHD)	✓

## BALANCED BY INTELLIGENCE.



All together now: The independent pumps work in harmony. Automatic fluid regulation and compensation systems prevent constant coagulation and saturation of the filter. It's simply one of the most advanced fluid balance management systems to date.



Fluid-balance management is an essential component of any blood-purification treatment. Most acute patients are hemodynamically unstable and require tight control of input and output volumes. With HomeoSAFE Premium SW, B. Braun continues to lead the way in terms of both safety and quality in the field of Acute Blood Purification.



### HomeoSAFE

A unique blood- and fluid-flow regulation system designed to safely and accurately meet and maintain the parameters you set.

#### Renal dose adjustment

After receiving the desired parameters, the software calculates the renal dose target (ml/kg/h) and continually adjusts fluid flow rates during the entire course of therapy. Any deviations due to ramping pumps and automatic fluid-exchange modulation are automatically compensated for.

#### Automatic blood-flow reduction

Inadequate arterial or venous pressures are analyzed by the OMNI SW. Blood flow is automatically temporarily decreased in order to avoid the repeated blood-pump stops that can lead to unnecessary alarms and to coagulation problems and result in failure to reach the desired renal dose.

#### Automatic fluid-exchange modulation & compensation

Inadequately high transmembrane pressure (TMP) is detected by the OMNI SW, and fluid exchange is automatically reduced as necessary in order to avoid rapid membrane saturation, which can also result in failure to achieve the necessary renal dose.

#### Automatic air removal via chamber regulation

Thanks to the three automatic regulation chambers on both the blood and fluid sides that are designed to detect and remove any air which has entered the system, staff workload is significantly reduced.

#### Ceramic fluid heater

It is designed to rapidly and accurately warm fluids during treatment from 30°C, for use in cardiac arrest, to 40°C for HVHF.



## AS EASY AS 1, 2, 3 ...



Discover the striking usability of the OMNIsystem by starting with the fully preconnected OMNIset.

1. Scan and unpack the set with the barcode scanner.
2. Snap the set onto the OMNI.
3. Load and prime automatically.



### Fully preconnected, including the OMNIfilter

The OMNIset has been designed to reduce setup, loading and priming workloads. Emergency connection for acute patients can be performed with limited training. Clear and simple on-screen instructions further facilitate the process.

### Lower blood volume thanks to superior line and chamber designs

Major challenges, such as severe blood loss and other critical hemodynamic states, can be successfully managed due to the very low extracorporeal volume required to initiate or end therapy.

### Renal dose adjustment

Thanks to the HomeoSAFE premium SW concept, blood flow is maintained at a safe and constant level. In addition, our advanced pump-ramping technology helps avoid low-membrane-efficiency issues.



### Save prep time with the OMNIset

With the pre-assembled OMNIset and easy, step-by-step on-screen instructions, setting up the OMNI is faster than for any other device in its class.

GET IN TOUCH.  
STAY ON TOP.



Let your fingers do the walking. The crystal-clear, 12" touchscreen provides the information you need and makes it easy to act rapidly and adequately in emergency situations.

#### 12" touchscreen

The clear, large and very fast display and user interface will help you get started with CRRT in no time. A comprehensive troubleshooting guide helps the user correct problems quickly. The unique screen saver is visible from up to 10 meters.

#### 360° status light

Located at the top of the OMNI and visible from any side, three different lights linked to audible alarms help the user safely follow treatment, change the bags or the heparin or calcium syringe or troubleshoot.

#### Staff call

Allowing the caregiver to slave the OMNI main display to the ICU's patient monitoring system, this feature enables rapid response if any alarms occur.

## CUTTING-EDGE DESIGN.

## WITHOUT EDGES.



When your all-new OMNI comes out of the shell, you instantly get a sense of its capabilities through its unique appearance. You'll discover the perfect interplay of design, functionality and usability. The OMNI is one of the sleekest and lightest CRRT device on the market.

### Totally mobile

Thanks to the compact size and low weight of the OMNI, it's easy to move around the ward or the entire hospital. This mobility is supported by a backup battery with a 30-minute capacity.

### Smallest footprint

Space comes at a premium in any ICU, so compact size is essential. In emergency situations, it can even be vital.

### Easy to clean

The front panel design facilitates cleaning. The CLEAN key allows the user to remove dust from the display at any time.



### Sleekest and lightest device available

The OMNI unique design makes it the most compact device of its kind on the market - a real advantage in any ICU.

## THE NEW SAFETY FIRST CLASS.



In the ICU, you often have just one chance to get it right. The advanced safety features of the new OMNIsystem enable you and your team to provide a high level of safety. Under any circumstances.

### Two-channel system

The dual-channel system including control and protective channels ensures maximum safety and accuracy for CRRT.

### Barcode scanner

Proper set selection is verified using barcodes, avoiding potential setup errors as well as the use of filters that have exceeded their expiration dates.

### Backup battery

Intrahospital transport of patients in critical condition is becoming common. Thanks to the 30 minutes of backup battery time the OMNI provides, blood flow doesn't need to be interrupted for diagnostics or other procedures.

### Three-way clamps for therapy/dilution change

Acute changes in the patient's condition must be addressed immediately. The three-way clamps system allows the user to move between the therapy and dilution panels with the same set at any time.

### Adult options

The OMNI gives the user the option to treat adult cases with the highest levels of accuracy and safety, always using the lowest extracorporeal volume.

### Data recording – the PDMS connection

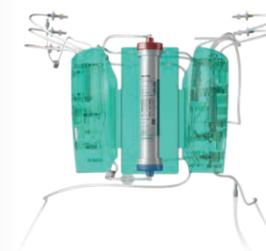
Data recording and transfer through the hospital PDMS is easier with the OMNI, which allows the user to recover the treatment history of the last 10 patients and to connect via cable to the hospital data network.





The 360° portfolio gives you the freedom and the capability to offer your patients any form of therapy whenever necessary – regardless of the severity of the condition. As a worldwide leader in the field, B. Braun stands for a high level of availability of components, accessories and disposable items.

COMPREHENSIVE. ANY WAY YOU LOOK AT IT.



**OMNIset**  
incl. hemofilter

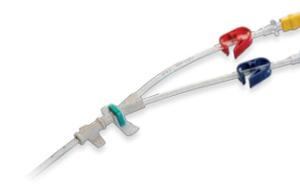
Full size range including  
0.3\* – 0.8 – 1.2 – 1.6 sq



**OMNIset**  
incl. plasmafilter\*

Full portfolio including  
0.3 – 0.5 – 0.7 sq

\* future option



**Catheter Set**

Curved and straight options;  
adequate size and length  
range for your patient  
access



**Duosol**

Three different bicarbonate  
formulas for hypo- or  
hypercatabolic patients  
0 – 2 or 4 K<sup>+</sup>



**Calcium-Free  
Bicarbonate Solution**

Calcium-free bicarbonate  
solution with 4 mmol/L  
potassium



**Citrasol**

Trisodium citrate (TSC)  
for the main RCA modes  
1l or 2l bag

**The comprehensive system**

The OMNI portfolio lets you treat both adult and pediatric\* patients, even those who are hemodynamically unstable or suffering from coagulation disorders.

**OMNIsupport**

Dedicated support will help the user to achieve the best possible results. Specific training tools and workshops are available to support ICU staff.

EXPERTISE SHARED.

IS EXPERTISE SQUARED.



Although the new OMNIsystem is practically self-explanatory, our dedicated team supports you on every level. Product training, specific workshops and symposia help you become the professional your team and your patients have been waiting for.

**Dedicated team for superior support and product training**

CRRT expertise is delivered by our acute teams, always qualified at the highest level.

**B. Braun Avitum ABP Academy**

New CRRT approaches can be reviewed and revisited through advanced training sessions and debates.

**Specific workshops and symposia**

Specific CRRT topics such as new treatment forms or novelties on the RCA will be discussed at KOL workshops and symposia.

**Service contracts**

Different options are available to your hospital's biomedical division. From the basics to full-service.

# 52 GOOD REASONS. EACH ONE OF THEM COUNTS.



The new OMNI provides plenty of convincing reasons to try it. How many do you need?



#### Full spectrum of CRRT modalities

- Renal support (AKI)
- Fluid Overload
- Individualized therapy approach

#### Full spectrum of therapy and anticoagulation modes

- SCUF, CVH, CVVHD, CVVHDF, pre - post - pre/post - post/post
- Heparin/citrate anticoagulation modes
- TPE\*\*
- Low blood volume\*\*

#### Full flexibility during therapy

- Continuous monitoring of the patient's condition
- Renal dose follow-up on the screen linked to fluid-balance management
- Easy to adjust within any therapy
- Easy to change the dilution (pre/post)
- Easy to change the anticoagulation mode\*
- Easy to change to another therapy form with the same set

#### Most accurate fluid-balance management

- Renal dose adjustment
- Four fluid pumps
- One syringe pump for heparin & calcium modes
- Three-way clamp for full therapy flexibility
- Automatic blood-flow reduction (HSP - HomeoSAFE Premium)
- Automatic fluid-exchange decrease (HSP)
- Automatic air removal via chamber regulation
- Reduced bag changes
- Ceramic fluid heater

#### Unique usability

- Fully pre-assembled kit with integrated OMNIfilter
- Lower blood volume thanks to fully pre-assembled set
- Short prep times
  - Easy setup (loading, connecting, hanging bags on the load cells)
  - Fast priming
  - Integrated warmer preparation
- Renal dose adjustment

#### Intuitive user interface

- 12" touchscreen
  - Graphic user interface
  - Intuitive video tutorials and help screens
  - Monitoring renal dose and patient condition
- Staff call
- 360° traffic status light

#### Cutting-edge design

- One of the sleekest and lightest device in the market
- Easy to move around the ICU
- One of the smallest footprint
- Easy-to-clean surfaces

#### Advanced safety features

- Dual-channel safety system
- Barcode scanner (avoids setup errors)
- Backup battery, 30 min. (easy and safe intrahospital transport)
- Data recording, patient data management system (PDMS)
- Treatment history of the last 10 patients
- Three-way clamps for therapy/dilution changes
- Adult/pediatric options

#### 360° portfolio

##### Comprehensive system consisting of:

- OMNI
- OMNIset hemo (fully preconnected set incl. hemofilter with four different surface choices)
- OMNIset plasma\*\* (fully preconnected set incl. plasmafilter with three different surface choices)
- Catheter Set (curved and straight options)
- Duosol (three different bicarbonate formulas)
- Calcium-Free Bicarbonate Solution
- Citrasol

##### Expert support

- Dedicated team for superior support and product training
- Specific workshops and symposia
- B. Braun Avitum ABP Academy
- Service contracts

\* the change of anticoagulation mode is allowed only between therapies, not during the therapy  
\*\* future option

#### Do you want to know more?

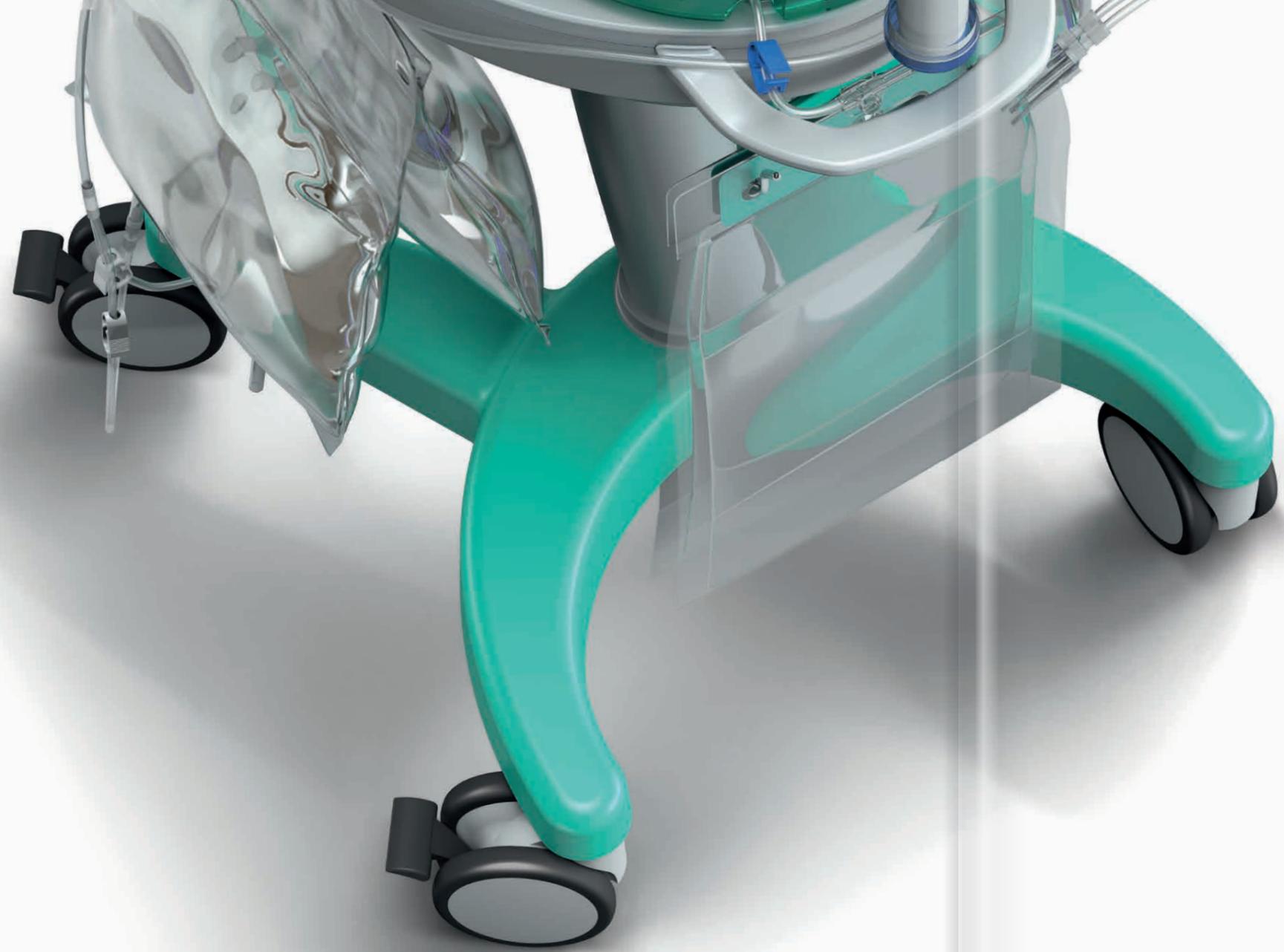
If you are looking for more detailed information on the OMNI system, please visit our website:

[www.omni-bbraun.com](http://www.omni-bbraun.com)

or scan the QR code to the right.



[get.neoreader.com](http://get.neoreader.com)



EXPECT MORE. DISCOVER OMNI.

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Learn more about the benefits of the new OMNI and our other innovative products.

For further information, download the dedicated app by scanning the QR code alongside.